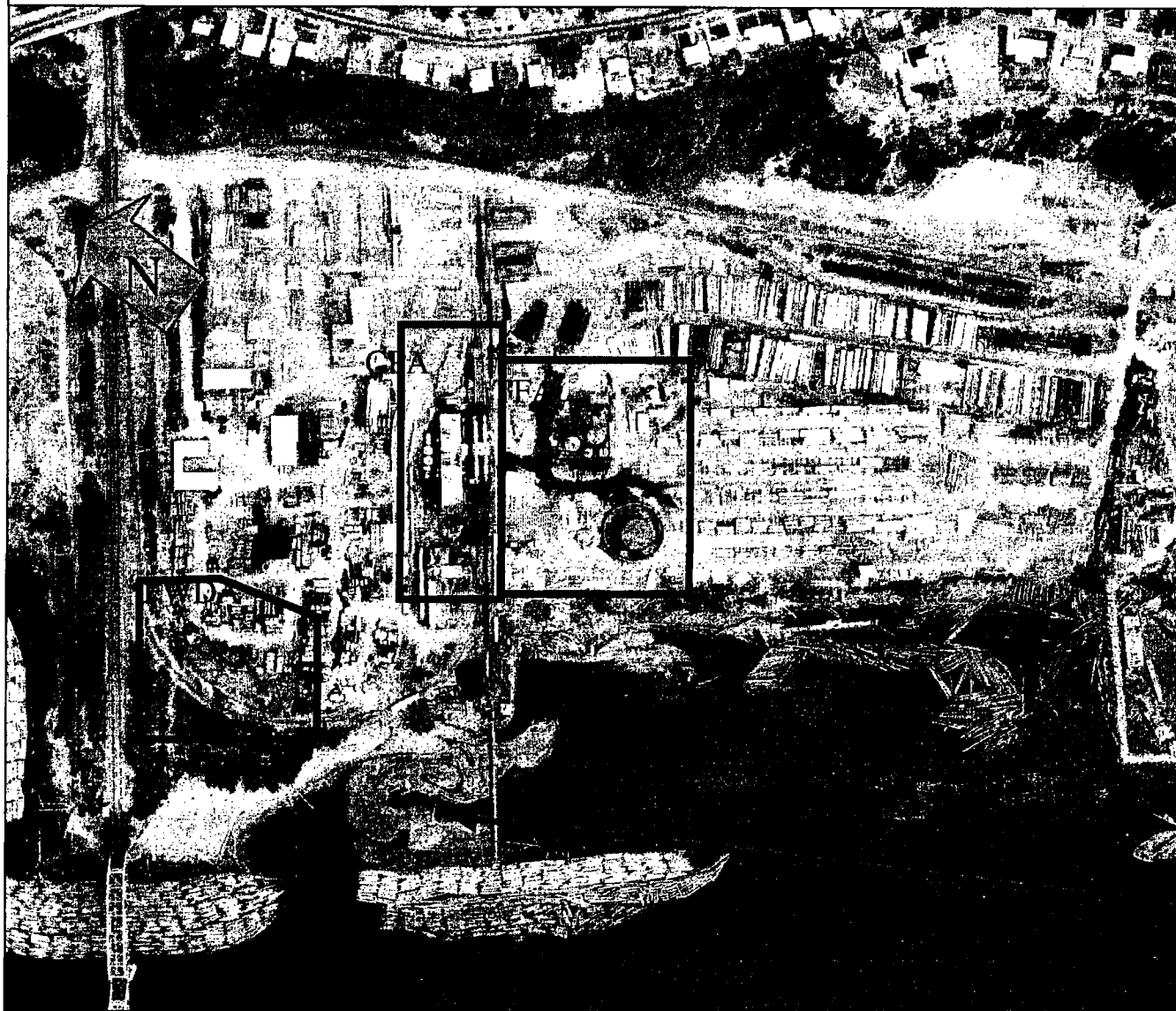


Primary Release Areas



*Aerial Photo
1973*

*Note: creosote
in river*



**DEQ**

State of Oregon
Department of
Environmental
Quality

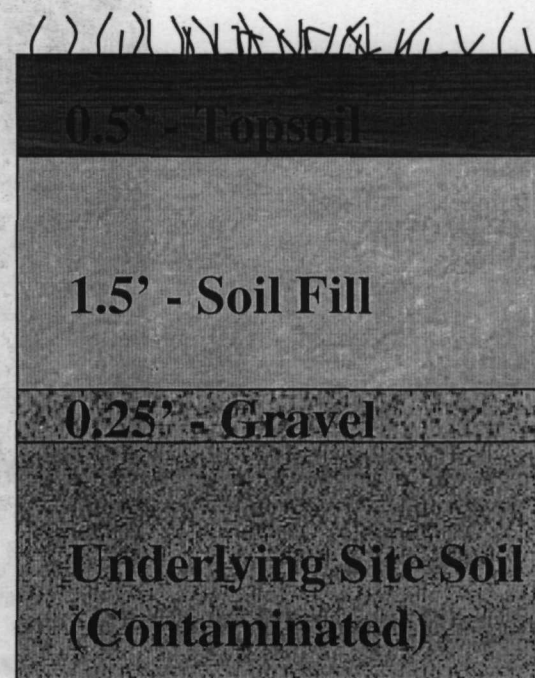
Soil Remedy: Hot Spot Removal & Capping



***1999 Soil Removal
(33,000 tons)***



***Future Soil Cap
Anticipated 2004/5***



Conceptual X-section



State of Oregon
Department of
Environmental
Quality

Hot Spot Removal (cont.)

SEPA
United States
Environmental
Protection Agency



April 16, 2002



Current Site Conditions:



 **ecology and environment, inc.**
International Specialists in the Environment
Portland, Oregon



Not to Scale

MCCORMICK AND BAXTER
CREOSOTING COMPANY SITE
Portland, Oregon

SITE AERIAL

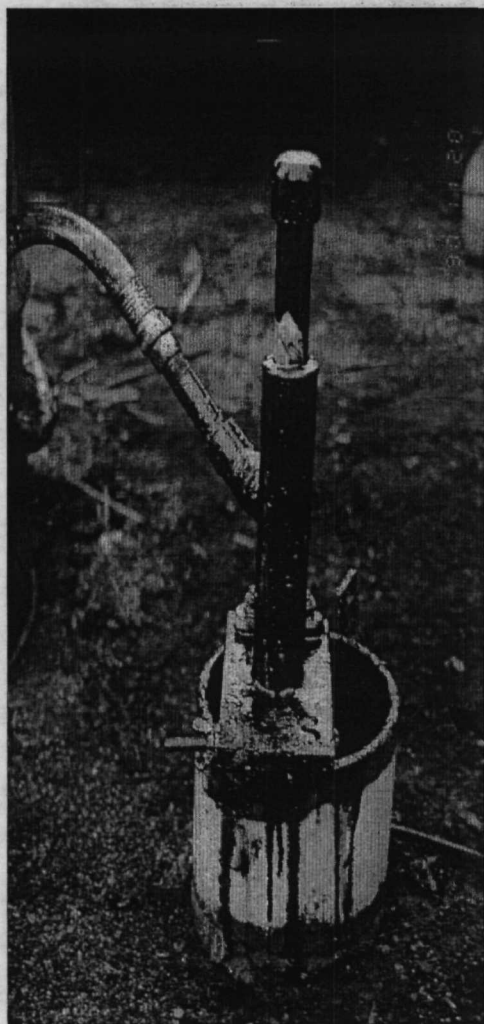
Date:
12/13/01

Drawn by:
AES

10:000749OB051302:base figure.cdr

April 16, 2002

Groundwater Remedy:



- Enhanced creosote recovery
(Initiated 1996 - Ongoing)
- Contingency for barrier wall
(Anticipated 2002)
- Pilot testing of innov techs
(Future Activity)
- Institutional controls

*Creosote Recover Well
(Pneumatic extraction)*



State of Oregon
Department of
Environmental
Quality



Exercise Barrier Wall Contingency:



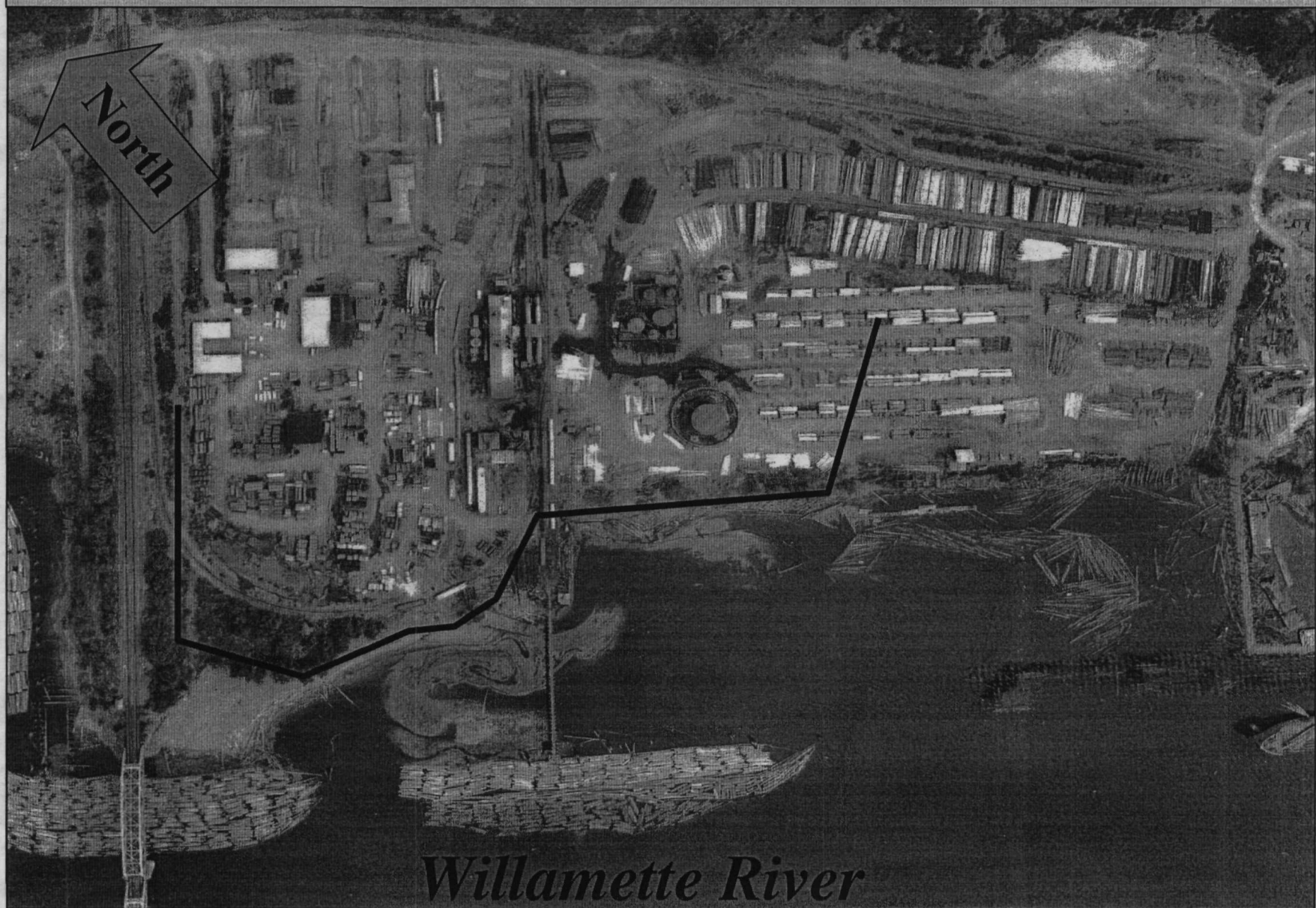
- Continued discharge of creosote into river
- Enhanced creosote extraction not cost-effective



Creosote seeps in Willamette Cove (summer 2001)

Proposed Barrier Wall Alignment

(March 27, 2002)



Willamette River

April 16, 2002

Extent of NAPL Contamination



ecology and environment, inc.
International Specialists in the Environment
Portland, Oregon



Not to Scale

MCCORMICK AND BAXTER
CREOSOTING COMPANY SITE
Portland, Oregon

SITE AERIAL

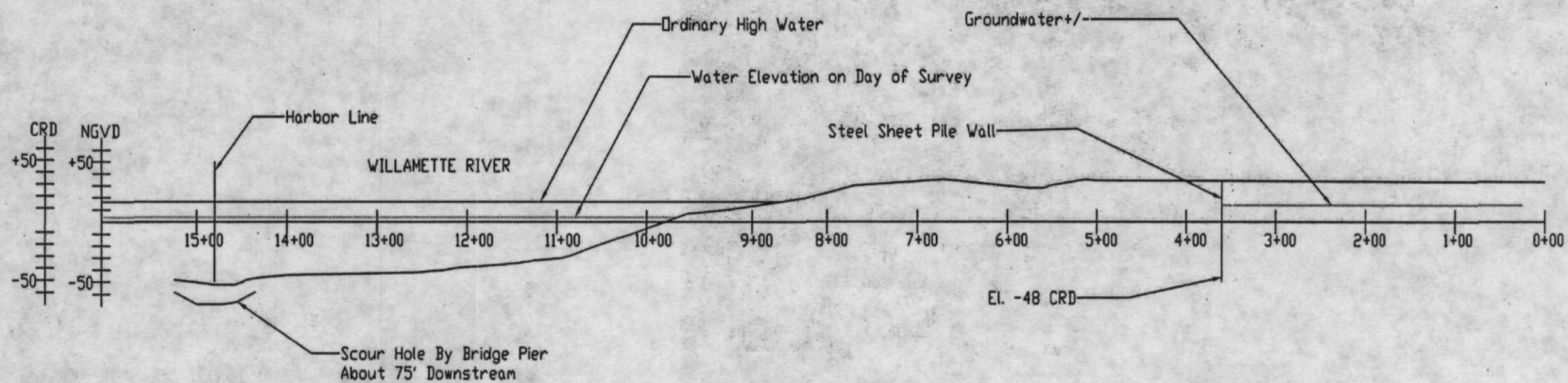
Date:
12/13/01

Drawn by:
AES

10:000749OB051302\base figure.cdr

April 16, 2002

NAPL Barrier Wall X-Section



SECTION ALONG SEWER LINE SOUTH EASEMENT (EXTENDED)



State of Oregon
Department of
Environmental
Quality

Sediment Remedy:



*Oily Sheen during
Wood Treating Operations*



- **Additional Sampling ('99/'01)**
- **Capping (Anticipated in 2003/4)**



*Monitoring Well Installation
(deep sediment investigation)*



State of Oregon
Department of
Environmental
Quality

Cap Footprint vs PAHs



United States
Environmental
Protection Agency



ecology and environment, inc.
International Specialists in the Environment
Portland, Oregon

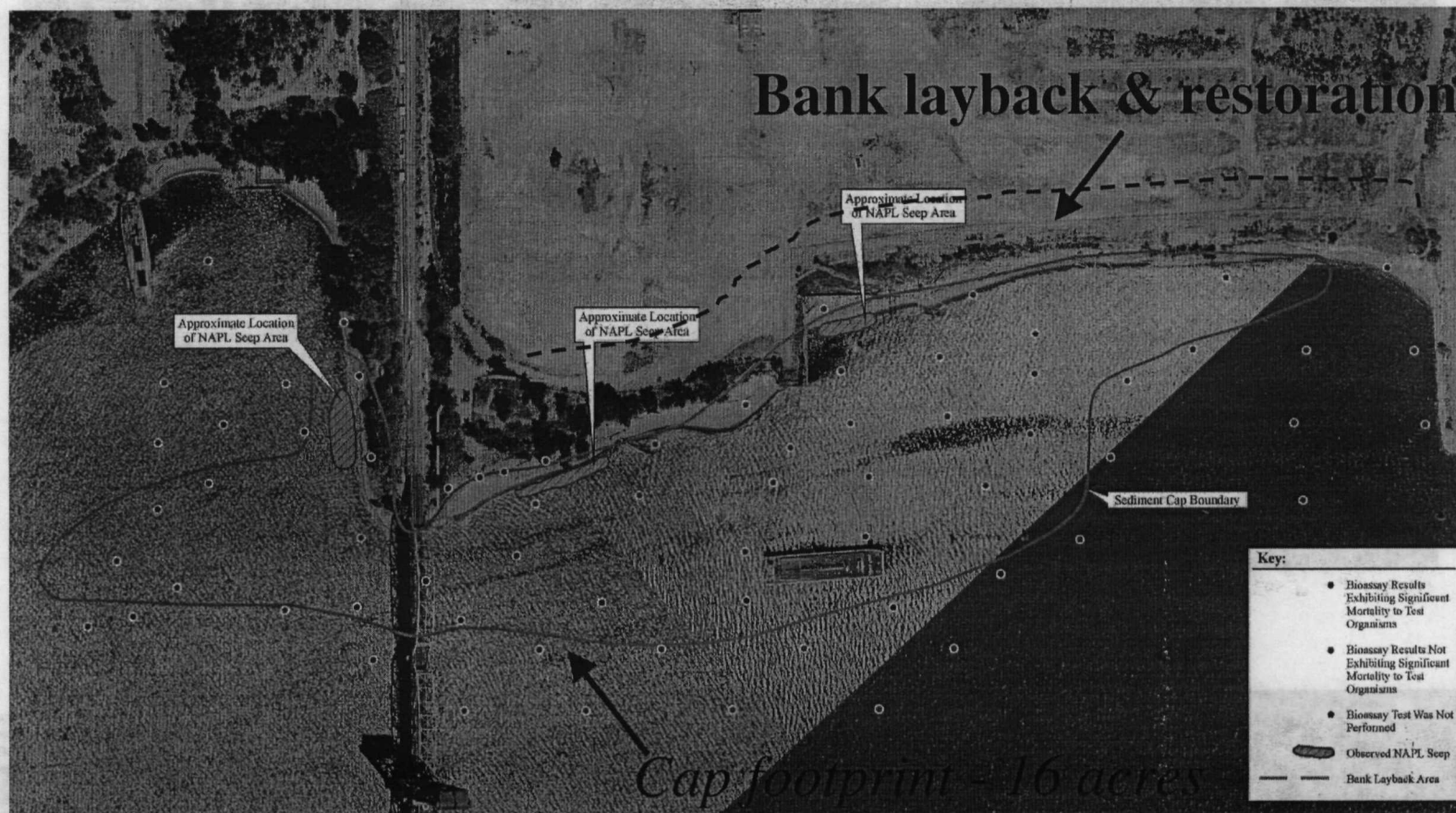
Aerial Photographs from
Spencer D. Green, Inc.
June 29, 2000

McCORMICK AND BAXTER
CREOSOTING COMPANY SITE
Portland, Oregon

1999 AND 2001 SEDIMENT CARCINOGENIC POLYNUCLEAR AROMATIC
HYDROCARBONS CONCENTRATION CONTOUR MAP

Date: 12/13/01	Drawn by: AES	10:000749OB051302hydro_m-b_3.cdr
-------------------	------------------	----------------------------------

Cap Footprint vs Bioassay

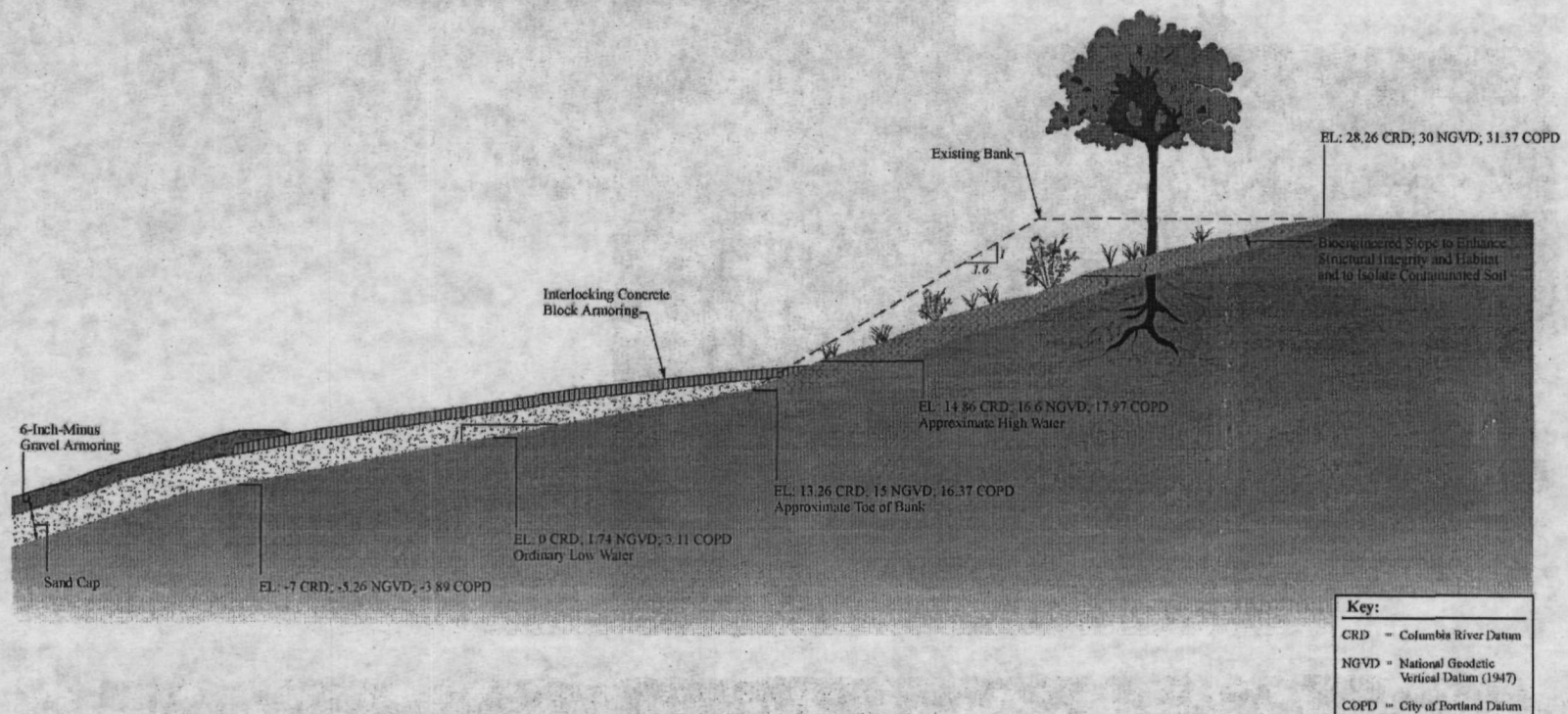




State of Oregon
Department of
Environmental
Quality

Cap Design Cross Section

SEPA
United States
Environmental
Protection Agency



ecology and environment, inc.
International Specialists in the Environment
Portland, Oregon

McCORMICK AND BAXTER
CREOSOTING COMPANY SITE
Portland, Oregon

CONCEPTUAL DEPICTION OF McCORMICK & BAXTER
SHORELINE UPON PROJECT COMPLETION

Date: 12/4/01	Drawn by: AES	10:000749OB051302/cross-section.cdr
------------------	------------------	-------------------------------------



State of Oregon
Department of
Environmental
Quality

Cap Design Elements:



•In-water pilings



•Woody debris along shoreline

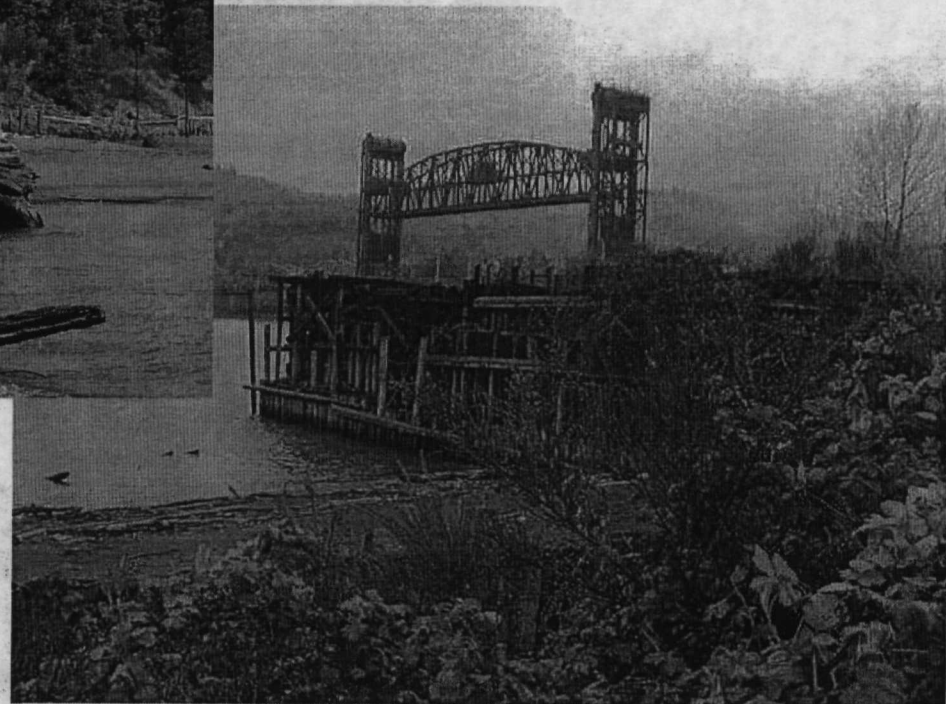
Cap Design Elements:

- Removal of unstable wooden bulkhead



Eastward view

Westward view



Cap Design Elements:

- Layback of unstable bank



Bank

Cap Design Elements:



•Wildlife “Friendly” or not?

*Bioengineered
Rootball*



*Eastside Esplanade
Riverbank Restoration Project*



Remedy Implementation Schedule:



Groundwater OU

- Barrier Wall - Winter 2002/03
- Enhanced NAPL Extraction - On-going
- Pilot Testing Innovative Technologies - 2003/05

Sediment OU

- Sediment Cap - 2003/4

Soil OU

- Soil Cap - 2004/5